

Notice of Allowability

Application No.

10/583,774

Applicant(s)

BRUSCHELLI, LUCA

Examiner

Art Unit

STEVEN R. GARLAND

2121

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the papers filed 4/20/09.
2. ☒ The allowed claim(s) is/are 34-65 renumbered respectively 1-6,12,14,13,7-11,15,16,21,22,17-20,23-25,30,31,26-29,32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Ramesh B. Patel/
Primary Examiner, Art Unit 2121

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Zotter on 7/6/09.

The application has been amended as follows:

Claim 51, line 4, change "said target" to --a target--.

Claim 57, line 11, after "support" insert-- ; --.

Cancel claim 66.

Claim 54, after line 2, replace the equation for " $EM_{loc}(y_1, y_2)$ " with the following equation (note this just clarifies that there is y_2 which has a 2 subscript which was partially overwritten)

$$EM_{loc}(y_1, y_2) = \frac{V_{mat}(y_1, y_2) - V_{mold}(y_1, y_2)}{V_{mold}(y_1, y_2)} .$$

Claim 63, after line 3, replace the equation for " $EM_{loc}(y_1, y_2)$ " with the following equation (note this just clarifies that there is y_2 which has a 2 subscript which was partially overwritten)

$$EM_{loc}(y_1, y_2) = \frac{V_{mat}(y_1, y_2) - V_{mold}(y_1, y_2)}{V_{mold}(y_1, y_2)} .$$

$$V_{\text{mold}}(y_1, y_2)$$

In claim 61, in the next to the last line, change " $V_{\text{mold}}(y_1, y_2)$ " to -- $V_{\text{mold}}(y)$ --.

2. The following is an examiner's statement of reasons for allowance: regarding claim 34 (now claim 1) and its dependent claims, the prior art fails to teach or render obvious the following claim limitations set forth in claim 34 of molding and curing said green tyre, at least one portion of said green tyre being molded and cured at a substantially constant volume in at least one portion of said molding cavity; wherein said step of disposing said uncured elastomeric material on said support comprises: determining a first excess material volume curve of said elastomeric material with respect to an available volume in said at least one portion of said molding cavity versus a predetermined direction; and controlling a volume distribution of said elastomeric material on said rigid support so as to substantially fit said first curve.

Regarding claim 48 (now claim 15) and its dependent claims, the prior art fails to teach or render obvious the following claim limitations set forth in claim 48 of use of a molding cavity such that at least one portion of said green tyre is molded and cured at a substantially constant volume; providing a first positioning specification set for machinery associated with a disposition of said uncured elastomeric material on said support; providing a cross-section profile of at least said portion of said molding cavity; and determining, from said first positioning specification set and from said molding

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cavity cross-section profile, a first excess material volume curve of said uncured elastomeric material with respect to an available volume in said portion of the molding cavity, versus a predetermined direction and controlling disposition based on said determining step.

Similar comments to those of claim 48 above apply to claim 57 (now claim 24) and its dependent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEVEN R. GARLAND whose telephone number is (571)272-3741. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Steven R Garland
Examiner
Art Unit 2121

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/RAMESH B. PATEL/

PRIMARY EXAMINER, ART UNIT 2121